

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/004890

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E21B34/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbol's)  
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 533 037 B2 (ESLINGER DAVID M ET AL) 18 March 2002 (2002-03-18) column 3, line 27 – column 4, line 26; figures 1-2C	1-6,10
Y	US 2 698 586 A (STANLEY ALONZO F ET AL) 4 January 1955 (1955-01-04) column 4, line 21 – column 4, line 27; figures 2-8	1-6,10
A	US 4 420 044 A (PULLIN ET AL) 13 December 1983 (1983-12-13) abstract; figures 2,4	1,10
A	US 5 862 864 A (WHITEFORD ET AL) 26 January 1999 (1999-01-26) claim 1; figures 1c,6c	1,10
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

25 February 2005

Date of mailing of the International search report

08/03/2005

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PCT/GB2004/004890

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/054505 A1 (CARMODY MICHAEL A ET AL) 27 December 2001 (2001-12-27) the whole document -----	1,10

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Information on patent family members

PCT/GB2004/004890

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 6533037	B2	30-05-2002	US 2002062963 A1 CA 2361284 A1 GB 2369632 A ,B GB 2384019 A ,B NO 20015805 A	30-05-2002 29-05-2002 05-06-2002 16-07-2003 30-05-2002
US 2698586	A	04-01-1955	NONE	
US 4420044	A	13-12-1983	NONE	
US 5862864	A	26-01-1999	GB 2297572 A ,B	07-08-1996
US 2001054505	A1	27-12-2001	US 6334486 B1 US 6260616 B1 US 5906238 A US 2001054504 A1 US 2002027002 A1 AU 728634 B2 AU 2722897 A CA 2221152 A1 CA 2450223 A1 CA 2450225 A1 CA 2450408 A1 CA 2450419 A1 GB 2348662 A ,B GB 2348226 A ,B GB 2348452 A ,B GB 2348453 A ,B GB 2348663 A ,B GB 2320731 A ,B NO 975498 A NO 20023982 A NO 20023983 A WO 9737102 A2	01-01-2002 17-07-2001 25-05-1999 27-12-2001 07-03-2002 11-01-2001 22-10-1997 09-10-1997 09-10-1997 09-10-1997 09-10-1997 11-10-2000 27-09-2000 04-10-2000 04-10-2000 11-10-2000 01-07-1998 28-11-1997 28-11-1997 28-11-1997 09-10-1997